SEQUENCE LISTING

<110> Van Eyk, Jennifer E.
Iscoe, Steven D
Simpson, Jeremy A

<120> Methods of Diagnosing Muscle Damage

<130> 1997-023-02US

<140> 09/115,589
<141> 1998-07-15

<150> 60/052,697
<151> 1997-07-16

<160> 50

<170> PatentIn Ver. 2.1

<210> 1
<211> 12
<212> PRT
<213> Unknown

<220>
<221> PEPTIDE
<222> (1)..(12)
<223> Myosin light chain 1

<220>
<221> PEPTIDE
<222> (1)
<223> May be any amino acid.

<220>
<221> PEPTIDE
<222> (2)
<223> May be any amino acid.

<220>
<221> PEPTIDE
<222> (7)
<223> May be either Pro or Ala.

<400> 1
Xaa Xaa Lys Lys Pro Glu Xaa Lys Ala Asp Asp Ala
1 5 10

<210> 2
<211> 12
<212> PRT
<213> Unknown

<220>
<221> PEPTIDE
<222> (1)..(12)
<223> Myosin light chain 1

<220>

<221> PEPTIDE
<222> (1)
<223> May be any amino acid.

<400> 2
Xaa Pro Ala Pro Ala Ala Ala Pro Ala Ala Ala Pro
1 5 10

<210> 3
<211> 11
<212> PRT
<213> Unknown

<220>
<221> PEPTIDE
<222> (1)..(11)
<223> malate dehydrogenase

<220>
<221> PEPTIDE
<222> (1)
<223> May be any amino acid.

<220>
<221> PEPTIDE
<222> (8)
<223> May be any amino acid.

<400> 3
Xaa Lys Val Ala Leu Gly Ala Xaa Gly Gly Ile
1 5 10

<210> 4
<211> 13
<212> PRT
<213> Unknown

<220>
<221> PEPTIDE
<222> (1)..(13)
<223> ATP g synthase chain

<220>
<221> PEPTIDE
<222> (1)
<223> May be any amino acid.

<220>
<221> PEPTIDE
<222> (2)
<223> May be any amino acid.

<400> 4
Xaa Xaa Leu Lys Asp Ile Thr Arg Arg Leu Lys Ser Ile
1 5 10

<210> 5
<211> 10

<212> PRT
<213> Unknown

<220>
<221> PEPTIDE
<222> (1)..(10)
<223> ATP synthase oligomycin conferring protein

<220>
<221> PEPTIDE
<222> (1)
<223> May be any amino acid.

<220>
<221> PEPTIDE
<222> (2)
<223> May be any amino acid.

<400> 5
Xaa Xaa Lys Leu Val Arg Pro Pro Val Gln
1 5 10

<210> 6
<211> 10
<212> PRT
<213> Unknown

<220>
<221> PEPTIDE
<222> (1)..(10)
<223> serum albumin

<220>
<221> PEPTIDE
<222> (1)
<223> May be any amino acid.

<400> 6
Xaa Ala His Lys Ser Glu Ile Ala His Arg
1 5 10

<210> 7
<211> 11
<212> PRT
<213> Unknown

<220>
<221> PEPTIDE
<222> (1)..(11)
<223> triose phosphate isomerase

<220>
<221> PEPTIDE
<222> (1)
<223> May be any amino acid.

<220>
<221> PEPTIDE
<222> (4)

<223> May be Arg or Leu.

<400> 7
Xaa Pro Ser Xaa Lys Phe Phe Val Gly Gly Asn
1 5 10

<210> 8
<211> 209
<212> PRT
<213> Unknown

<220>
<221> PEPTIDE
<222> (1)..(209)
<223> Human cardiac troponin I

<220>
<223> Swiss prot identification number P19429

<300>
<303> FEBS Lett.
<304> 270
<305> 1-2
<306> 57-61
<307> 1990-09-17

<400> 8
Ala Asp Gly Ser Ser Asp Ala Ala Arg Glu Pro Arg Pro Ala Pro Ala
1 5 10 15

Pro Ile Arg Arg Arg Ser Ser Asn Tyr Arg Ala Tyr Ala Thr Glu Pro
20 25 30

His Ala Lys Lys Lys Ser Lys Ile Ser Ala Ser Arg Lys Leu Gln Leu
35 40 45

Lys Thr Leu Leu Leu Gln Ile Ala Lys Gln Glu Leu Glu Arg Glu Ala
50 55 60

Glu Glu Arg Arg Gly Glu Lys Gly Arg Ala Leu Ser Thr Arg Cys Gln
65 70 75 80

Pro Leu Glu Leu Ala Gly Leu Gly Phe Ala Glu Leu Gln Asp Leu Cys
85 90 95

Arg Gln Leu His Ala Arg Val Asp Lys Val Asp Glu Glu Arg Tyr Asp
100 105 110

Ile Glu Ala Lys Val Thr Lys Asn Ile Thr Glu Ile Ala Asp Leu Thr
115 120 125

Gln Lys Ile Phe Asp Leu Arg Gly Lys Phe Lys Arg Pro Thr Leu Arg
130 135 140

Arg Val Arg Ile Ser Ala Asp Ala Met Met Gln Ala Leu Leu Gly Ala
145 150 155 160

Arg Ala Lys Glu Ser Leu Asp Leu Arg Ala His Leu Lys Gln Val Lys
165 170 175

```
Lys Glu Asp Thr Glu Lys Glu Asn Arg Glu Val Gly Asp Trp Arg Lys
            180                 185                 190

Asn Ile Asp Ala Leu Ser Gly Met Glu Gly Arg Lys Lys Lys Phe Glu
        195                 200                 205

Ser
```

<210> 9
<211> 186
<212> PRT
<213> Unknown

<220>
<221> PEPTIDE
<222> (1)..(186)
<223> Human slow skeletal troponin I

<220>
<223> Swiss prot identification number P19237

<300>
<303> Genomics
<304> 7
<305> 3
<306> 346-357
<307> Jul-1990

<400> 9

```
Pro Glu Val Glu Arg Lys Pro Lys Ile Thr Ala Ser Arg Lys Leu Leu
  1               5                  10                  15

Leu Lys Ser Leu Met Leu Ala Lys Ala Lys Glu Cys Trp Glu Gln Glu
             20                  25                  30

His Glu Glu Arg Glu Ala Glu Lys Val Arg Tyr Leu Ala Glu Arg Ile
         35                  40                  45

Pro Thr Leu Gln Thr Arg Gly Leu Ser Leu Ser Ala Leu Gln Asp Leu
     50                  55                  60

Cys Arg Glu Leu His Ala Lys Val Glu Val Val Asp Glu Glu Arg Tyr
 65                  70                  75                  80

Asp Ile Glu Ala Lys Cys Leu His Asn Thr Arg Glu Ile Lys Asp Leu
                 85                  90                  95

Lys Leu Lys Val Met Asp Leu Arg Gly Lys Phe Lys Arg Pro Pro Leu
            100                 105                 110

Arg Arg Val Arg Val Ser Ala Asp Ala Met Leu Arg Ala Leu Leu Gly
        115                 120                 125

Ser Lys His Lys Val Ser Met Asp Leu Arg Ala Asn Leu Lys Ser Val
    130                 135                 140

Lys Lys Glu Asp Thr Glu Lys Glu Arg Pro Val Glu Val Gly Asp Trp
145                 150                 155                 160
```

```
Arg Lys Asn Val Glu Ala Met Ser Gly Met Glu Gly Arg Lys Lys Met
                165                 170                 175

Phe Asp Ala Ala Lys Ser Pro Thr Ser Gln
            180                 185
```

<210> 10
<211> 181
<212> PRT
<213> Unknown

<220>
<221> PEPTIDE
<222> (1)..(181)
<223> Human fast skeletal troponin I

<220>
<223> Swiss prot identification number P48788

<300>
<303> Biochim. Biophys. Acta
<304> 1217
<306> 338-340
<307> 1994-04-06

<400> 10

```
Gly Asp Glu Glu Lys Arg Asn Arg Ala Ile Thr Ala Arg Arg Gln His
  1               5                  10                  15

Leu Lys Ser Val Met Leu Gln Ile Ala Ala Thr Glu Leu Glu Lys Glu
             20                  25                  30

Glu Ser Arg Arg Glu Ala Glu Lys Gln Asn Tyr Leu Ala Glu His Cys
         35                  40                  45

Pro Pro Leu His Ile Pro Gly Ser Met Ser Glu Val Gln Glu Leu Cys
     50                  55                  60

Lys Gln Leu His Ala Lys Ile Asp Ala Ala Glu Glu Glu Lys Tyr Asp
 65                  70                  75                  80

Met Glu Val Arg Val Gln Lys Thr Ser Lys Glu Leu Glu Asp Met Asn
                 85                  90                  95

Gln Lys Leu Phe Asp Leu Arg Gly Lys Phe Lys Arg Pro Pro Leu Arg
            100                 105                 110

Arg Val Arg Met Ser Ala Asp Ala Met Leu Lys Ala Leu Leu Gly Ser
        115                 120                 125

Lys His Lys Val Cys Met Asp Leu Arg Ala Asn Leu Lys Gln Val Lys
    130                 135                 140

Lys Glu Asp Thr Glu Lys Glu Arg Asp Leu Arg Asp Val Gly Asp Trp
145                 150                 155                 160

Arg Lys Asn Ile Glu Glu Lys Ser Gly Met Glu Gly Arg Lys Lys Met
                165                 170                 175

Phe Glu Ser Glu Ser
```

180

<210> 11
<211> 210
<212> PRT
<213> Unknown

<220>
<221> PEPTIDE
<222> (1)..(210)
<223> Rat cardiac troponin I

<220>
<223> Swiss prot identification number P23693

<300>
<303> Biochemistry
<304> 30
<305> 3
<306> 707-712
<307> 1991-01-22

<400> 11

```
Ala Asp Glu Ser Ser Asp Ala Ala Gly Glu Pro Gln Pro Ala Pro Ala
  1               5                  10                  15

Pro Val Arg Arg Arg Ser Ser Ala Asn Tyr Arg Ala Tyr Ala Thr Glu
             20                  25                  30

Pro His Ala Lys Lys Lys Ser Lys Ile Ser Ala Ser Arg Lys Leu Gln
         35                  40                  45

Leu Lys Thr Leu Met Leu Gln Ile Ala Lys Gln Glu Met Glu Arg Glu
     50                  55                  60

Ala Glu Glu Arg Arg Gly Glu Lys Gly Arg Val Leu Ser Thr Arg Cys
 65                  70                  75                  80

Gln Pro Leu Val Leu Asp Gly Leu Gly Phe Glu Glu Leu Gln Asp Leu
                 85                  90                  95

Cys Arg Gln Leu His Ala Arg Val Asp Lys Val Asp Glu Glu Arg Tyr
            100                 105                 110

Asp Val Glu Ala Lys Val Thr Lys Asn Ile Thr Glu Ile Ala Asp Leu
        115                 120                 125

Thr Gln Lys Ile Tyr Asp Leu Arg Gly Lys Phe Lys Arg Pro Thr Leu
    130                 135                 140

Arg Arg Val Arg Ile Ser Ala Asp Ala Met Met Gln Ala Leu Leu Gly
145                 150                 155                 160

Thr Arg Ala Lys Glu Ser Leu Asp Leu Arg Ala His Leu Lys Gln Val
                165                 170                 175

Lys Lys Glu Asp Ile Glu Lys Glu Asn Arg Glu Val Gly Asp Trp Arg
            180                 185                 190

Lys Asn Ile Asp Ala Leu Ser Gly Met Glu Gly Arg Lys Lys Lys Phe
```

195 200 205

Glu Gly
210

<210> 12
<211> 186
<212> PRT
<213> Unknown

<220>
<221> PEPTIDE
<222> (1)..(186)
<223> Rat slow skeletal troponin I

<220>
<223> Swiss prot identification number P13413

<300>
<303> J. Biol. Chem.
<304> 264
<305> 24
<306> 14327-14333
<307> 1989-08-25

<400> 12

```
Pro Glu Val Glu Arg Lys Ser Lys Ile Thr Ala Ser Arg Lys Leu Met
  1               5                  10                  15

Leu Lys Ser Leu Met Leu Ala Lys Ala Lys Glu Cys Trp Glu Gln Glu
             20                  25                  30

His Glu Glu Arg Glu Ala Glu Lys Val Arg Tyr Leu Ser Glu Arg Ile
         35                  40                  45

Pro Thr Leu Gln Thr Arg Gly Leu Ser Leu Ser Ala Leu Gln Asp Leu
     50                  55                  60

Cys Arg Glu Leu His Ala Lys Val Glu Val Val Asp Glu Glu Arg Tyr
 65                  70                  75                  80

Asp Ile Glu Ala Lys Cys Leu His Asn Thr Arg Glu Ile Lys Asp Leu
                 85                  90                  95

Lys Leu Lys Val Leu Asp Leu Arg Gly Lys Phe Lys Arg Pro Pro Leu
            100                 105                 110

Arg Arg Val Arg Val Ser Ala Asp Ala Met Leu Arg Ala Leu Leu Gly
        115                 120                 125

Ser Lys His Lys Val Ser Met Asp Leu Arg Ala Asn Leu Lys Ser Val
    130                 135                 140

Lys Lys Glu Asp Thr Glu Lys Glu Arg Pro Val Glu Val Gly Asp Trp
145                 150                 155                 160

Arg Lys Asn Val Glu Ala Met Ser Gly Met Glu Gly Arg Lys Lys Met
                165                 170                 175

Phe Asp Ala Ala Lys Ser Pro Thr Leu Gln
```

180 185

<210> 13
<211> 181
<212> PRT
<213> Unknown

<220>
<221> PEPTIDE
<222> (1)..(181)
<223> Rat fast skeletal troponin I

<220>
<223> Swiss prot identification number P27768

<300>
<308> EMBL/GENBANK/DDBJ DATA BANKS
<309> 1992-08-01

<400> 13

```
Gly Asp Glu Glu Lys Arg Asn Arg Ala Ile Thr Ala Arg Arg Gln His
  1               5                  10                  15

Leu Lys Ser Val Met Leu Gln Ile Ala Ala Thr Glu Leu Glu Lys Glu
             20                  25                  30

Glu Ser Arg Arg Glu Ser Glu Lys Gln Asn Tyr Leu Ser Glu His Cys
         35                  40                  45

Pro Pro Leu His Ile Pro Gly Ser Met Ser Glu Val Gln Glu Leu Cys
     50                  55                  60

Lys Gln Leu His Ala Lys Ile Asp Ala Ala Glu Glu Glu Lys Tyr Asp
 65                  70                  75                  80

Met Glu Val Lys Val Gln Lys Ser Ser Lys Glu Leu Glu Asp Met Asn
                 85                  90                  95

Gln Lys Leu Phe Asp Leu Arg Gly Lys Phe Lys Arg Pro Pro Leu Arg
            100                 105                 110

Arg Val Arg Met Ser Ala Asp Ala Met Leu Lys Ala Leu Leu Gly Ser
        115                 120                 125

Lys His Lys Val Cys Met Asp Leu Arg Ala Asn Leu Lys Gln Val Lys
    130                 135                 140

Lys Glu Asp Thr Glu Lys Glu Arg Asp Leu Arg Asp Val Gly Asp Trp
145                 150                 155                 160

Arg Lys Asn Ile Glu Glu Lys Ser Gly Met Glu Gly Arg Lys Lys Met
                165                 170                 175

Phe Glu Ser Glu Ser
            180
```

<210> 14
<211> 287
<212> PRT

<213> Unknown

<220>
<221> PEPTIDE
<222> (1)..(287)
<223> Human cardiac troponin T

<220>
<223> Swiss prot identification number P45379

<300>
<303> FEBS Lett.
<304> 328
<305> 1-2
<306> 139-144
<307> 1993-08-09

<400> 14

```
Ser Asp Ile Glu Glu Val Val Glu Glu Tyr Glu Glu Glu Glu Gln Glu
  1               5                  10                  15

Glu Ala Ala Val Glu Glu Gln Glu Glu Ala Ala Glu Glu Asp Ala Glu
             20                  25                  30

Ala Glu Ala Glu Thr Glu Glu Thr Arg Ala Glu Glu Asp Glu Glu Glu
         35                  40                  45

Glu Glu Ala Lys Glu Ala Glu Asp Gly Pro Met Glu Glu Ser Lys Pro
     50                  55                  60

Lys Pro Arg Ser Phe Met Pro Asn Leu Val Pro Pro Lys Ile Pro Asp
 65                  70                  75                  80

Gly Glu Arg Val Asp Phe Asp Asp Ile His Arg Lys Arg Met Glu Lys
                 85                  90                  95

Asp Leu Asn Glu Leu Gln Ala Leu Ile Glu Ala His Phe Glu Asn Arg
            100                 105                 110

Lys Lys Glu Glu Glu Glu Leu Val Ser Leu Lys Asp Arg Ile Glu Arg
        115                 120                 125

Arg Arg Ala Glu Arg Ala Glu Gln Gln Arg Ile Arg Asn Glu Arg Glu
    130                 135                 140

Lys Glu Arg Gln Asn Arg Leu Ala Glu Glu Arg Ala Arg Arg Glu Glu
145                 150                 155                 160

Glu Glu Asn Arg Arg Lys Ala Glu Asp Glu Ala Arg Lys Lys Lys Ala
                165                 170                 175

Leu Ser Asn Met Met His Phe Gly Gly Tyr Ile Gln Lys Gln Ala Gln
            180                 185                 190

Thr Glu Arg Lys Ser Gly Lys Arg Gln Thr Glu Arg Glu Lys Lys Lys
        195                 200                 205

Lys Ile Leu Ala Glu Arg Arg Lys Val Leu Ala Ile Asp His Leu Asn
    210                 215                 220

Glu Asp Gln Leu Arg Glu Lys Ala Lys Glu Leu Trp Gln Ser Ile Tyr
```

225 230 235 240

Asn Leu Glu Ala Glu Lys Phe Asp Leu Gln Glu Lys Phe Lys Gln Gln
245 250 255

Lys Tyr Glu Ile Asn Val Leu Arg Asn Arg Ile Asn Asp Asn Gln Lys
260 265 270

Val Ser Lys Thr Arg Gly Lys Ala Lys Val Thr Gly Arg Trp Lys
275 280 285

<210> 15
<211> 277
<212> PRT
<213> Unknown

<220>
<221> PEPTIDE
<222> (1)..(277)
<223> Human slow skeletal troponin T

<220>
<223> Swiss prot identification number P13805

<300>
<303> J. Biol. Chem.
<304> 262
<305> 33
<306> 16122-16126
<307> 1987-11-25

<400> 15
Ser Asp Thr Glu Glu Gln Glu Tyr Glu Glu Glu Gln Pro Glu Glu Glu
1 5 10 15

Ala Ala Glu Glu Glu Glu Glu Ala Pro Glu Glu Pro Glu Pro Val Ala
20 25 30

Glu Pro Glu Glu Glu Arg Pro Lys Pro Ser Arg Pro Val Val Pro Pro
35 40 45

Leu Ile Pro Pro Lys Ile Pro Glu Gly Glu Arg Val Asp Phe Asp Asp
50 55 60

Ile His Arg Lys Arg Met Glu Lys Asp Leu Leu Glu Leu Gln Thr Leu
65 70 75 80

Ile Asp Val His Phe Glu Gln Arg Lys Lys Glu Glu Glu Glu Leu Val
85 90 95

Ala Leu Lys Glu Arg Ile Glu Arg Arg Arg Ser Glu Arg Ala Glu Gln
100 105 110

Gln Arg Phe Arg Thr Glu Lys Glu Arg Glu Arg Gln Ala Lys Leu Ala
115 120 125

Glu Glu Lys Met Arg Lys Glu Glu Glu Glu Ala Lys Lys Arg Ala Glu
130 135 140

Asp Asp Ala Lys Lys Lys Lys Val Leu Ser Asn Met Gly Ala His Phe

145 150 155 160

Gly Gly Tyr Leu Val Lys Ala Glu Gln Lys Arg Gly Lys Arg Gln Thr
165 170 175

Gly Arg Glu Met Lys Val Arg Ile Leu Ser Glu Arg Lys Lys Pro Leu
180 185 190

Asp Ile Asp Tyr Met Gly Glu Glu Gln Leu Arg Ala Arg Ser Ala Trp
195 200 205

Leu Pro Pro Ser Gln Pro Ser Cys Pro Ala Arg Glu Lys Ala Gln Glu
210 215 220

Leu Ser Asp Trp Ile His Gln Leu Glu Ser Glu Lys Phe Asp Leu Met
225 230 235 240

Ala Lys Leu Lys Gln Gln Lys Tyr Glu Ile Asn Val Leu Tyr Asn Arg
245 250 255

Ile Ser His Ala Gln Lys Phe Arg Lys Gly Ala Gly Lys Gly Arg Val
260 265 270

Gly Gly Arg Trp Lys
275

<210> 16
<211> 257
<212> PRT
<213> Unknown

<220>
<221> PEPTIDE
<222> (1)..(257)
<223> Human fast skeletal troponin T

<220>
<223> Swiss prot identification number P45378

<300>
<303> DNA Cell Biol.
<304> 13
<305> 3
<306> 217-233
<307> MAR-1994

<400> 16
Ser Asp Glu Glu Val Glu Gln Val Glu Glu Gln Tyr Glu Glu Glu Glu
1 5 10 15

Glu Ala Gln Glu Glu Glu Glu Val Gln Glu Asp Thr Ala Glu Glu Asp
20 25 30

Ala Glu Glu Glu Lys Pro Arg Pro Lys Leu Thr Ala Pro Lys Ile Pro
35 40 45

Glu Gly Glu Lys Val Asp Phe Asp Asp Ile Gln Lys Lys Arg Gln Asn
50 55 60

Lys Asp Leu Met Glu Leu Gln Ala Leu Ile Asp Ser His Phe Glu Ala

```
 65                  70                  75                  80

Arg Lys Lys Glu Glu Glu Glu Leu Val Ala Leu Lys Glu Arg Ile Glu
                 85                  90                  95

Lys Arg Arg Ala Glu Arg Ala Glu Gln Gln Arg Ile Arg Ala Glu Lys
            100                 105                 110

Glu Arg Glu Arg Gln Asn Arg Leu Ala Glu Glu Lys Ala Arg Arg Glu
        115                 120                 125

Glu Glu Asp Ala Lys Arg Arg Ala Glu Asp Asp Leu Lys Lys Lys Lys
    130                 135                 140

Ala Leu Ser Ser Met Gly Ala Asn Tyr Ser Ser Tyr Leu Ala Lys Ala
145                 150                 155                 160

Asp Gln Lys Arg Gly Lys Lys Gln Thr Ala Arg Glu Met Lys Lys Lys
                165                 170                 175

Ile Leu Ala Glu Arg Arg Lys Pro Leu Asn Ile Asp His Leu Gly Glu
            180                 185                 190

Asp Lys Leu Arg Asp Lys Ala Lys Glu Leu Trp Glu Thr Leu His Gln
        195                 200                 205

Leu Glu Ile Asp Lys Phe Glu Phe Gly Glu Lys Leu Lys Arg Gln Lys
    210                 215                 220

Tyr Asp Ile Thr Thr Leu Arg Ser Arg Ile Asp Gln Ala Gln Lys His
225                 230                 235                 240

Ser Lys Lys Ala Gly Thr Pro Ala Lys Gly Lys Val Gly Gly Arg Trp
                245                 250                 255

Lys
```

<210> 17
<211> 298
<212> PRT
<213> Unknown

<220>
<221> PEPTIDE
<222> (1)..(298)
<223> Rat cardiac troponin T

<220>
<223> Swiss prot identification number P50753

<300>
<303> J. Biol. Chem.
<304> 264
<305> 24
<306> 14471-14477
<307> 1989-08-25

<400> 17

```
Ser Asp Ala Glu Glu Glu Val Val Glu Tyr Glu Glu Glu Gln Glu Glu
  1               5                  10                  15
```

```
Glu Asp Trp Ser Glu Glu Glu Glu Asp Glu Gln Glu Glu Ala Val Glu
             20                  25                  30

Glu Glu Asp Gly Glu Ala Glu Pro Asp Pro Glu Gly Glu Ala Glu Ala
         35                  40                  45

Glu Glu Asp Lys Ala Glu Glu Val Gly Pro Asp Glu Glu Ala Arg Asp
     50                  55                  60

Ala Glu Asp Gly Pro Val Glu Asp Ser Lys Pro Lys Pro Ser Arg Leu
 65                  70                  75                  80

Phe Met Pro Asn Leu Val Pro Pro Lys Ile Pro Asp Gly Glu Arg Val
                 85                  90                  95

Asp Phe Asp Asp Ile His Arg Lys Arg Met Glu Lys Asp Leu Asn Glu
            100                 105                 110

Leu Gln Thr Leu Ile Glu Ala His Phe Glu Asn Arg Lys Lys Glu Glu
        115                 120                 125

Glu Glu Leu Ile Ser Leu Lys Asp Arg Ile Glu Lys Arg Arg Ala Glu
    130                 135                 140

Arg Ala Glu Gln Gln Arg Ile Arg Asn Glu Arg Glu Lys Glu Arg Gln
145                 150                 155                 160

Asn Arg Leu Ala Glu Glu Arg Ala Arg Arg Glu Glu Glu Glu Asn Arg
                165                 170                 175

Arg Lys Ala Glu Asp Glu Ala Arg Lys Lys Lys Ala Leu Ser Asn Met
            180                 185                 190

Met His Phe Gly Gly Tyr Ile Gln Lys Ala Gln Thr Glu Arg Lys Ser
        195                 200                 205

Gly Lys Arg Gln Thr Glu Arg Glu Lys Lys Lys Lys Ile Leu Ala Glu
    210                 215                 220

Arg Arg Lys Val Leu Ala Ile Asp His Leu Asn Glu Asp Gln Leu Arg
225                 230                 235                 240

Glu Lys Ala Lys Glu Leu Trp Gln Ser Ile His Asn Leu Glu Ala Glu
                245                 250                 255

Lys Phe Asp Leu Gln Glu Lys Phe Lys Gln Gln Lys Tyr Glu Ile Asn
            260                 265                 270

Val Leu Arg Asn Arg Ile Asn Asp Asn Gln Lys Val Ser Lys Thr Arg
        275                 280                 285

Gly Lys Ala Lys Val Thr Gly Arg Trp Lys
    290                 295
```

<210> 18
<211> 258
<212> PRT
<213> Unknown

<220>
<221> PEPTIDE
<222> (1)..(258)
<223> Rat fast skeletal troponin T

<220>
<223> Swiss prot identification number P09739

<300>
<303> J. Mol. Biol.
<304> 188
<305> 3
<306> 313-324
<307> 1986-04-05

<400> 18

```
Ser Asp Glu Glu Thr Glu Gln Val Glu Glu Gln Tyr Glu Glu Glu Glu
  1               5                  10                  15

Glu Ala Gln Glu Glu Glu Val Gln Glu Glu Ala Pro Glu Pro Glu Glu
             20                  25                  30

Val Gln Glu Glu Glu Lys Pro Arg Pro Lys Leu Thr Ala Pro Lys Ile
         35                  40                  45

Pro Glu Gly Glu Lys Val Asp Phe Asp Asp Ile Gln Lys Lys Arg Gln
     50                  55                  60

Asn Lys Asp Leu Met Glu Leu Gln Ala Leu Ile Asp Ser His Phe Glu
 65                  70                  75                  80

Ala Arg Lys Lys Glu Glu Glu Glu Leu Ile Ala Leu Lys Glu Arg Ile
                 85                  90                  95

Glu Lys Arg Arg Ala Glu Arg Ala Glu Gln Gln Arg Ile Arg Ala Glu
            100                 105                 110

Lys Glu Arg Glu Arg Gln Asn Arg Leu Ala Glu Glu Lys Ala Arg Arg
        115                 120                 125

Glu Glu Glu Asp Ala Lys Arg Arg Ala Glu Asp Asp Leu Lys Lys Lys
    130                 135                 140

Lys Ala Leu Ser Ser Met Gly Ala Asn Tyr Ser Ser Tyr Leu Ala Lys
145                 150                 155                 160

Ala Asp Gln Lys Arg Gly Lys Lys Gln Thr Ala Arg Glu Met Lys Lys
                165                 170                 175

Lys Ile Leu Ala Glu Arg Arg Lys Pro Leu Asn Ile Asp His Leu Ser
            180                 185                 190

Asp Asp Lys Leu Arg Asp Lys Ala Lys Glu Leu Trp Asp Thr Leu Tyr
        195                 200                 205

Gln Leu Glu Thr Asp Lys Phe Glu Phe Gly Glu Lys Leu Lys Arg Gln
    210                 215                 220

Lys Tyr Asp Ile Thr Thr Leu Arg Ser Arg Ile Asp Gln Ala Gln Lys
225                 230                 235                 240
```

```
His Ser Lys Lys Ala Gly Ala Thr Ala Lys Gly Lys Val Gly Gly Arg
                245                 250                 255

Trp Lys


<210> 19
<211> 192
<212> PRT
<213> Unknown

<220>
<221> PEPTIDE
<222> (1)..(192)
<223> rat myosin light chain 1, atrial isoform

<220>
<223> Swiss prot identification number P17209

<300>
<303> Nucleic Acids Res.
<304> 18
<305> 6
<306> 1581-1586
<307> 1990-03-25

<400> 19
Pro Pro Lys Lys Pro Glu Pro Lys Lys Glu Thr Ala Lys Val Ala Ala
  1               5                  10                  15

Ala Pro Ala Pro Ala Pro Ala Pro Ala Pro Glu Pro Leu Arg Asp Ser
             20                  25                  30

Ala Phe Asp Pro Lys Ser Val Lys Ile Asp Phe Ser Ala Asp Gln Ile
         35                  40                  45

Glu Glu Phe Lys Glu Ala Phe Ser Leu Phe Asp Arg Thr Pro Thr Gly
     50                  55                  60

Glu Met Lys Ile Thr Tyr Gly Gln Cys Gly Asp Val Leu Arg Ala Leu
 65                  70                  75                  80

Gly Gln Asn Pro Thr Asn Ala Glu Val Leu Arg Val Leu Gly Lys Pro
                 85                  90                  95

Lys Pro Glu Glu Met Asn Ser Lys Thr Leu Asp Phe Glu Met Phe Leu
            100                 105                 110

Pro Ile Leu Gln His Ile Ser Arg Asn Lys Glu Gln Gly Thr Tyr Glu
        115                 120                 125

Asp Phe Val Glu Gly Leu Arg Val Phe Asp Lys Glu Ser Asn Gly Thr
    130                 135                 140

Val Met Gly Ala Glu Leu Arg His Val Leu Ala Thr Leu Gly Glu Lys
145                 150                 155                 160

Met Ser Glu Ala Glu Val Glu Gln Leu Leu Thr Gly Gln Glu Asp Ala
                165                 170                 175

Asn Gly Cys Ile Asn Tyr Glu Ala Phe Val Lys His Val Met Ser Gly
```

180 185 190

<210> 20
<211> 193
<212> PRT
<213> Unknown

<220>
<221> PEPTIDE
<222> (1)..(193)
<223> Rat cardiac troponin I

<400> 20

```
Ala Asp Glu Ser Ser Asp Ala Ala Gly Glu Pro Gln Pro Ala Pro Ala
  1               5                  10                  15

Pro Val Arg Arg Arg Ser Ser Ala Asn Tyr Arg Ala Tyr Ala Thr Glu
             20                  25                  30

Pro His Ala Lys Lys Lys Ser Lys Ile Ser Ala Ser Arg Lys Leu Gln
         35                  40                  45

Leu Lys Thr Leu Met Leu Gln Ile Ala Lys Gln Glu Met Glu Arg Glu
     50                  55                  60

Ala Glu Glu Arg Arg Gly Glu Lys Gly Arg Val Leu Ser Thr Arg Cys
 65                  70                  75                  80

Gln Pro Leu Val Leu Asp Gly Leu Gly Phe Glu Glu Leu Gln Asp Leu
                 85                  90                  95

Cys Arg Gln Leu His Ala Arg Val Asp Lys Val Asp Glu Glu Arg Tyr
            100                 105                 110

Asp Val Glu Ala Lys Val Thr Lys Asn Ile Thr Glu Ile Ala Asp Leu
        115                 120                 125

Thr Gln Lys Ile Tyr Asp Leu Arg Gly Lys Phe Lys Arg Pro Thr Leu
    130                 135                 140

Arg Arg Val Arg Ile Ser Ala Asp Ala Met Met Gln Ala Leu Leu Gly
145                 150                 155                 160

Thr Arg Ala Lys Glu Ser Leu Asp Leu Arg Ala His Leu Lys Gln Val
                165                 170                 175

Lys Lys Glu Asp Ile Glu Lys Glu Asn Arg Glu Val Gly Asp Trp Arg
            180                 185                 190

Lys
```

<210> 21
<211> 192
<212> PRT
<213> Unknown

<220>
<221> PEPTIDE

<222> (1)..(192)
<223> Human cardiac troponin I

<400> 21
Ala Asp Gly Ser Ser Asp Ala Ala Arg Glu Pro Arg Pro Ala Pro Ala
1 5 10 15

Pro Ile Arg Arg Arg Ser Ser Asn Tyr Arg Ala Tyr Ala Thr Glu Pro
20 25 30

His Ala Lys Lys Lys Ser Lys Ile Ser Ala Ser Arg Lys Leu Gln Leu
35 40 45

Lys Thr Leu Leu Leu Gln Ile Ala Lys Gln Glu Leu Glu Arg Glu Ala
50 55 60

Glu Glu Arg Arg Gly Glu Lys Gly Arg Ala Leu Ser Thr Arg Cys Gln
65 70 75 80

Pro Leu Glu Leu Ala Gly Leu Gly Phe Ala Glu Leu Gln Asp Leu Cys
85 90 95

Arg Gln Leu His Ala Arg Val Asp Lys Val Asp Glu Glu Arg Tyr Asp
100 105 110

Ile Glu Ala Lys Val Thr Lys Asn Ile Thr Glu Ile Ala Asp Leu Thr
115 120 125

Gln Lys Ile Phe Asp Leu Arg Gly Lys Phe Lys Arg Pro Thr Leu Arg
130 135 140

Arg Val Arg Ile Ser Ala Asp Ala Met Met Gln Ala Leu Leu Gly Ala
145 150 155 160

Arg Ala Lys Glu Ser Leu Asp Leu Arg Ala His Leu Lys Gln Val Lys
165 170 175

Lys Glu Asp Thr Glu Lys Glu Asn Arg Glu Val Gly Asp Trp Arg Lys
180 185 190

<210> 22
<211> 131
<212> PRT
<213> Unknown

<220>
<221> PEPTIDE
<222> (63)..(193)
<223> Rat cardiac troponin I

<400> 22

Arg Glu Ala Glu Glu Arg Arg Gly Glu Lys Gly Arg Val Leu Ser Thr
1 5 10 15

Arg Cys Gln Pro Leu Val Leu Asp Gly Leu Gly Phe Glu Glu Leu Gln
20 25 30

Asp Leu Cys Arg Gln Leu His Ala Arg Val Asp Lys Val Asp Glu Glu
35 40 45

```
Arg Tyr Asp Val Glu Ala Lys Val Thr Lys Asn Ile Thr Glu Ile Ala
     50                  55                  60

Asp Leu Thr Gln Lys Ile Tyr Asp Leu Arg Gly Lys Phe Lys Arg Pro
 65                  70                  75                  80

Thr Leu Arg Arg Val Arg Ile Ser Ala Asp Ala Met Met Gln Ala Leu
                 85                  90                  95

Leu Gly Thr Arg Ala Lys Glu Ser Leu Asp Leu Arg Ala His Leu Lys
            100                 105                 110

Gln Val Lys Lys Glu Asp Ile Glu Lys Glu Asn Arg Glu Val Gly Asp
        115                 120                 125

Trp Arg Lys
    130
```

<210> 23
<211> 131
<212> PRT
<213> Unknown

<220>
<221> PEPTIDE
<222> (62)..(192)
<223> Human cardiac troponin I

<400> 23

```
Arg Glu Ala Glu Glu Arg Arg Gly Glu Lys Gly Arg Ala Leu Ser Thr
  1               5                  10                  15

Arg Cys Gln Pro Leu Glu Leu Ala Gly Leu Gly Phe Ala Glu Leu Gln
            20                  25                  30

Asp Leu Cys Arg Gln Leu His Ala Arg Val Asp Lys Val Asp Glu Glu
        35                  40                  45

Arg Tyr Asp Ile Glu Ala Lys Val Thr Lys Asn Ile Thr Glu Ile Ala
     50                  55                  60

Asp Leu Thr Gln Lys Ile Phe Asp Leu Arg Gly Lys Phe Lys Arg Pro
 65                  70                  75                  80

Thr Leu Arg Arg Val Arg Ile Ser Ala Asp Ala Met Met Gln Ala Leu
                 85                  90                  95

Leu Gly Ala Arg Ala Lys Glu Ser Leu Asp Leu Arg Ala His Leu Lys
            100                 105                 110

Gln Val Lys Lys Glu Asp Thr Glu Lys Glu Asn Arg Glu Val Gly Asp
        115                 120                 125

Trp Arg Lys
    130
```

<210> 24
<211> 121
<212> PRT

<213> Unknown

<220>
<221> PEPTIDE
<222> (73)..(193)
<223> Rat cardiac troponin I

<400> 24

```
Gly Arg Val Leu Ser Thr Arg Cys Gln Pro Leu Val Leu Asp Gly Leu
  1               5                  10                  15

Gly Phe Glu Glu Leu Gln Asp Leu Cys Arg Gln Leu His Ala Arg Val
             20                  25                  30

Asp Lys Val Asp Glu Glu Arg Tyr Asp Val Glu Ala Lys Val Thr Lys
         35                  40                  45

Asn Ile Thr Glu Ile Ala Asp Leu Thr Gln Lys Ile Tyr Asp Leu Arg
     50                  55                  60

Gly Lys Phe Lys Arg Pro Thr Leu Arg Arg Val Arg Ile Ser Ala Asp
 65                  70                  75                  80

Ala Met Met Gln Ala Leu Leu Gly Thr Arg Ala Lys Glu Ser Leu Asp
                 85                  90                  95

Leu Arg Ala His Leu Lys Gln Val Lys Lys Glu Asp Ile Glu Lys Glu
            100                 105                 110

Asn Arg Glu Val Gly Asp Trp Arg Lys
        115                 120
```

<210> 25
<211> 121
<212> PRT
<213> Unknown

<220>
<221> PEPTIDE
<222> (72)..(192)
<223> Human cardiac troponin I

<400> 25

```
Gly Arg Ala Leu Ser Thr Arg Cys Gln Pro Leu Glu Leu Ala Gly Leu
  1               5                  10                  15

Gly Phe Ala Glu Leu Gln Asp Leu Cys Arg Gln Leu His Ala Arg Val
             20                  25                  30

Asp Lys Val Asp Glu Glu Arg Tyr Asp Ile Glu Ala Lys Val Thr Lys
         35                  40                  45

Asn Ile Thr Glu Ile Ala Asp Leu Thr Gln Lys Ile Phe Asp Leu Arg
     50                  55                  60

Gly Lys Phe Lys Arg Pro Thr Leu Arg Arg Val Arg Ile Ser Ala Asp
 65                  70                  75                  80
```

Ala Met Met Gln Ala Leu Leu Gly Ala Arg Ala Lys Glu Ser Leu Asp
85 90 95

Leu Arg Ala His Leu Lys Gln Val Lys Lys Glu Asp Thr Glu Lys Glu
100 105 110

Asn Arg Glu Val Gly Asp Trp Arg Lys
115 120

<210> 26
<211> 17
<212> PRT
<213> Unknown

<220>
<221> PEPTIDE
<222> (194)..(210)
<223> Rat cardiac troponin I

<400> 26

Asn Ile Asp Ala Leu Ser Gly Met Glu Gly Arg Lys Lys Lys Phe Glu
1 5 10 15

Gly

<210> 27
<211> 17
<212> PRT
<213> Unknown

<220>
<221> PEPTIDE
<222> (193)..(209)
<223> Human cardiac troponin I

<400> 27
Asn Ile Asp Ala Leu Ser Gly Met Glu Gly Arg Lys Lys Lys Phe Glu
1 5 10 15

Ser

<210> 28
<211> 180
<212> PRT
<213> Unknown

<220>
<221> PEPTIDE
<222> (20)..(199)
<223> rat myosin light chain 1, atrial isoform

<400> 28
Ala Pro Ala Pro Ala Ala Ala Pro Ala Ala Ala Pro Glu Pro Glu Arg
1 5 10 15

Pro Lys Glu Ala Glu Phe Asp Ala Ser Lys Ile Lys Ile Glu Phe Thr
20 25 30

Pro Glu Gln Ile Glu Glu Phe Lys Glu Ala Phe Gln Leu Phe Asp Arg

```
         35                  40                  45

Thr Pro Lys Gly Glu Met Lys Ile Thr Tyr Gly Gln Cys Gly Asp Val
     50                  55                  60

Leu Arg Ala Leu Gly Gln Asn Pro Thr Gln Ala Glu Val Leu Arg Val
 65                  70                  75                  80

Leu Gly Lys Pro Lys Gln Glu Glu Leu Asn Ser Lys Met Met Asp Phe
                 85                  90                  95

Glu Thr Phe Leu Pro Met Leu Gln His Ile Ser Lys Asn Lys Asp Thr
            100                 105                 110

Gly Thr Tyr Glu Asp Phe Val Glu Gly Leu Arg Val Phe Asp Lys Glu
        115                 120                 125


Gly Asn Gly Thr Val Met Gly Ala Glu Leu Arg His Val Leu Ala Thr
    130                 135                 140


Leu Gly Glu Arg Leu Thr Glu Asp Glu Val Glu Lys Leu Met Ala Gly
145                 150                 155                 160


Gln Glu Asp Ser Asn Gly Cys Ile Asn Tyr Glu Ala Phe Val Lys His
                165                 170                 175

Ile Met Ala Ser
            180


<210> 29
<211> 19
<212> PRT
<213> Unknown

<220>
<221> PEPTIDE
<222> (1)..(19)
<223> rat myosin light chain 1, atrial isoform

<400> 29
Pro Pro Lys Lys Pro Glu Pro Lys Lys Glu Thr Ala Lys Val Ala Ala
  1               5                  10                  15

Ala Pro Ala


<210> 30
<211> 108
<212> PRT
<213> Unknown

<220>
<221> PEPTIDE
<222> (191)..(298)
<223> Rat cardiac troponin T

<400> 30
```

```
Asn Met Met His Phe Gly Gly Tyr Ile Gln Lys Ala Gln Thr Glu Arg
  1               5                  10                  15

Lys Ser Gly Lys Arg Gln Thr Glu Arg Glu Lys Lys Lys Lys Ile Leu
             20                  25                  30

Ala Glu Arg Arg Lys Val Leu Ala Ile Asp His Leu Asn Glu Asp Gln
         35                  40                  45

Leu Arg Glu Lys Ala Lys Glu Leu Trp Gln Ser Ile His Asn Leu Glu
     50                  55                  60

Ala Glu Lys Phe Asp Leu Gln Glu Lys Phe Lys Gln Gln Lys Tyr Glu
 65                  70                  75                  80

Ile Asn Val Leu Arg Asn Arg Ile Asn Asp Asn Gln Lys Val Ser Lys
                 85                  90                  95

Thr Arg Gly Lys Ala Lys Val Thr Gly Arg Trp Lys
            100                 105

<210> 31
<211> 190
<212> PRT
<213> Unknown

<220>
<221> PEPTIDE
<222> (1)..(190)
<223> Rat cardiac troponin T

<400> 31
Ser Asp Ala Glu Glu Glu Val Val Glu Tyr Glu Glu Glu Gln Glu Glu
  1               5                  10                  15

Glu Asp Trp Ser Glu Glu Glu Glu Asp Glu Gln Glu Glu Ala Val Glu
             20                  25                  30

Glu Glu Asp Gly Glu Ala Glu Pro Asp Pro Glu Gly Glu Ala Glu Ala
         35                  40                  45

Glu Glu Asp Lys Ala Glu Glu Val Gly Pro Asp Glu Glu Ala Arg Asp
     50                  55                  60

Ala Glu Asp Gly Pro Val Glu Asp Ser Lys Pro Lys Pro Ser Arg Leu
 65                  70                  75                  80

Phe Met Pro Asn Leu Val Pro Pro Lys Ile Pro Asp Gly Glu Arg Val
                 85                  90                  95

Asp Phe Asp Asp Ile His Arg Lys Arg Met Glu Lys Asp Leu Asn Glu
            100                 105                 110

Leu Gln Thr Leu Ile Glu Ala His Phe Glu Asn Arg Lys Lys Glu Glu
        115                 120                 125

Glu Glu Leu Ile Ser Leu Lys Asp Arg Ile Glu Lys Arg Arg Ala Glu
    130                 135                 140

Arg Ala Glu Gln Gln Arg Ile Arg Asn Glu Arg Glu Lys Glu Arg Gln
145                 150                 155                 160
```

```
Asn Arg Leu Ala Glu Glu Arg Ala Arg Arg Glu Glu Glu Glu Asn Arg
                165                 170                 175

Arg Lys Ala Glu Asp Glu Ala Arg Lys Lys Lys Ala Leu Ser
            180                 185                 190
```

<210> 32
<211> 106
<212> PRT
<213> Unknown

<220>
<221> PEPTIDE
<222> (182)..(287)
<223> Human cardiac troponin T

<400> 32

```
His Phe Gly Gly Tyr Ile Gln Lys Gln Ala Gln Thr Glu Arg Lys Ser
  1               5                  10                  15

Gly Lys Arg Gln Thr Glu Arg Glu Lys Lys Lys Lys Ile Leu Ala Glu
             20                  25                  30

Arg Arg Lys Val Leu Ala Ile Asp His Leu Asn Glu Asp Gln Leu Arg
         35                  40                  45

Glu Lys Ala Lys Glu Leu Trp Gln Ser Ile Tyr Asn Leu Glu Ala Glu
     50                  55                  60

Lys Phe Asp Leu Gln Glu Lys Phe Lys Gln Gln Lys Tyr Glu Ile Asn
 65                  70                  75                  80

Val Leu Arg Asn Arg Ile Asn Asp Asn Gln Lys Val Ser Lys Thr Arg
                 85                  90                  95

Gly Lys Ala Lys Val Thr Gly Arg Trp Lys
            100                 105
```

<210> 33
<211> 181
<212> PRT
<213> Unknown

<220>
<221> PEPTIDE
<222> (1)..(181)
<223> Human cardiac troponin T

<400> 33

```
Ser Asp Ile Glu Glu Val Val Glu Glu Tyr Glu Glu Glu Glu Gln Glu
  1               5                  10                  15

Glu Ala Ala Val Glu Glu Gln Glu Glu Ala Ala Glu Glu Asp Ala Glu
             20                  25                  30

Ala Glu Ala Glu Thr Glu Glu Thr Arg Ala Glu Glu Asp Glu Glu Glu
         35                  40                  45

Glu Glu Ala Lys Glu Ala Glu Asp Gly Pro Met Glu Glu Ser Lys Pro
     50                  55                  60
```

```
Lys Pro Arg Ser Phe Met Pro Asn Leu Val Pro Pro Lys Ile Pro Asp
 65                  70                  75                  80

Gly Glu Arg Val Asp Phe Asp Asp Ile His Arg Lys Arg Met Glu Lys
                 85                  90                  95

Asp Leu Asn Glu Leu Gln Ala Leu Ile Glu Ala His Phe Glu Asn Arg
            100                 105                 110

Lys Lys Glu Glu Glu Glu Leu Val Ser Leu Lys Asp Arg Ile Glu Arg
        115                 120                 125

Arg Arg Ala Glu Arg Ala Glu Gln Gln Arg Ile Arg Asn Glu Arg Glu
    130                 135                 140

Lys Glu Arg Gln Asn Arg Leu Ala Glu Glu Arg Ala Arg Arg Glu Glu
145                 150                 155                 160

Glu Glu Asn Arg Arg Lys Ala Glu Asp Glu Ala Arg Lys Lys Lys Ala
                165                 170                 175

Leu Ser Asn Met Met
```

<210> 34
<211> 13
<212> PRT
<213> Unknown

<220>
<221> PEPTIDE
<222> (136)..(148)
<223> Rat cardiac troponin I

<400> 34
```
Arg Gly Lys Phe Lys Arg Pro Thr Leu Arg Arg Val Arg
  1               5                  10
```

<210> 35
<211> 47
<212> PRT
<213> Unknown

<220>
<221> PEPTIDE
<222> (129)..(175)
<223> Rat cardiac troponin I

<400> 35
```
Thr Gln Lys Ile Tyr Asp Leu Arg Gly Lys Phe Lys Arg Pro Thr Leu
  1               5                  10                  15

Arg Arg Val Arg Ile Ser Ala Asp Ala Met Met Gln Ala Leu Leu Gly
             20                  25                  30

Thr Arg Ala Lys Glu Ser Leu Asp Leu Arg Ala His Leu Lys Gln
         35                  40                  45
```

<210> 36
<211> 157
<212> PRT

<213> Unknown

<220>
<221> PEPTIDE
<222> (54)..(210)
<223> Rat cardiac troponin I

<400> 36
Leu Gln Ile Ala Lys Gln Glu Met Glu Arg Glu Ala Glu Glu Arg Arg
1 5 10 15

Gly Glu Lys Gly Arg Val Leu Ser Thr Arg Cys Gln Pro Leu Val Leu
20 25 30

Asp Gly Leu Gly Phe Glu Glu Leu Gln Asp Leu Cys Arg Gln Leu His
35 40 45

Ala Arg Val Asp Lys Val Asp Glu Glu Arg Tyr Asp Val Glu Ala Lys
50 55 60

Val Thr Lys Asn Ile Thr Glu Ile Ala Asp Leu Thr Gln Lys Ile Tyr
65 70 75 80

Asp Leu Arg Gly Lys Phe Lys Arg Pro Thr Leu Arg Arg Val Arg Ile
85 90 95

Ser Ala Asp Ala Met Met Gln Ala Leu Leu Gly Thr Arg Ala Lys Glu
100 105 110

Ser Leu Asp Leu Arg Ala His Leu Lys Gln Val Lys Lys Glu Asp Ile
115 120 125

Glu Lys Glu Asn Arg Glu Val Gly Asp Trp Arg Lys Asn Ile Asp Ala
130 135 140

Leu Ser Gly Met Glu Gly Arg Lys Lys Lys Phe Glu Gly
145 150 155

<210> 37
<211> 188
<212> PRT
<213> Unknown

<220>
<221> PEPTIDE
<222> (1)..(188)
<223> Rat cardiac troponin I

<400> 37
Ala Asp Glu Ser Ser Asp Ala Ala Gly Glu Pro Gln Pro Ala Pro Ala
1 5 10 15

Pro Val Arg Arg Arg Ser Ser Ala Asn Tyr Arg Ala Tyr Ala Thr Glu
20 25 30

Pro His Ala Lys Lys Lys Ser Lys Ile Ser Ala Ser Arg Lys Leu Gln
35 40 45

Leu Lys Thr Leu Met Leu Gln Ile Ala Lys Gln Glu Met Glu Arg Glu
50 55 60

```
Ala Glu Glu Arg Arg Gly Glu Lys Gly Arg Val Leu Ser Thr Arg Cys
 65                  70                  75                  80

Gln Pro Leu Val Leu Asp Gly Leu Gly Phe Glu Glu Leu Gln Asp Leu
                85                  90                  95

Cys Arg Gln Leu His Ala Arg Val Asp Lys Val Asp Glu Glu Arg Tyr
            100                 105                 110

Asp Val Glu Ala Lys Val Thr Lys Asn Ile Thr Glu Ile Ala Asp Leu
        115                 120                 125

Thr Gln Lys Ile Tyr Asp Leu Arg Gly Lys Phe Lys Arg Pro Thr Leu
    130                 135                 140

Arg Arg Val Arg Ile Ser Ala Asp Ala Met Met Gln Ala Leu Leu Gly
145                 150                 155                 160

Thr Arg Ala Lys Glu Ser Leu Asp Leu Arg Ala His Leu Lys Gln Val
                165                 170                 175

Lys Lys Glu Asp Ile Glu Lys Glu Asn Arg Glu Val
            180                 185
```

<210> 38
<211> 199
<212> PRT
<213> Unknown

<220>
<221> PEPTIDE
<222> (1)..(199)
<223> Rat cardiac troponin I

<400> 38

```
Ala Asp Glu Ser Ser Asp Ala Ala Gly Glu Pro Gln Pro Ala Pro Ala
  1               5                  10                  15

Pro Val Arg Arg Arg Ser Ser Ala Asn Tyr Arg Ala Tyr Ala Thr Glu
             20                  25                  30

Pro His Ala Lys Lys Lys Ser Lys Ile Ser Ala Ser Arg Lys Leu Gln
         35                  40                  45

Leu Lys Thr Leu Met Leu Gln Ile Ala Lys Gln Glu Met Glu Arg Glu
     50                  55                  60

Ala Glu Glu Arg Arg Gly Glu Lys Gly Arg Val Leu Ser Thr Arg Cys
 65                  70                  75                  80

Gln Pro Leu Val Leu Asp Gly Leu Gly Phe Glu Glu Leu Gln Asp Leu
                85                  90                  95

Cys Arg Gln Leu His Ala Arg Val Asp Lys Val Asp Glu Glu Arg Tyr
            100                 105                 110

Asp Val Glu Ala Lys Val Thr Lys Asn Ile Thr Glu Ile Ala Asp Leu
        115                 120                 125

Thr Gln Lys Ile Tyr Asp Leu Arg Gly Lys Phe Lys Arg Pro Thr Leu
```

```
    130                 135                 140

Arg Arg Val Arg Ile Ser Ala Asp Ala Met Met Gln Ala Leu Leu Gly
145                 150                 155                 160

Thr Arg Ala Lys Glu Ser Leu Asp Leu Arg Ala His Leu Lys Gln Val
                165                 170                 175

Lys Lys Glu Asp Ile Glu Lys Glu Asn Arg Glu Val Gly Asp Trp Arg
            180                 185                 190

Lys Asn Ile Asp Ala Leu Ser
        195
```

<210> 39
<211> 12
<212> PRT
<213> Unknown

<220>
<221> PEPTIDE
<222> (188)..(199)
<223> Human cardiac troponin I

<400> 39
```
Gly Asp Trp Arg Lys Asn Ile Asp Ala Leu Ser Gly
  1               5                  10
```

<210> 40
<211> 6
<212> PRT
<213> Unknown

<220>
<221> PEPTIDE
<222> (70)..(75)
<223> rat myosin light chain 1, atrial isoform

<400> 40
```
Tyr Gly Gln Cys Gly Asp
  1               5
```

<210> 41
<211> 36
<212> PRT
<213> Unknown

<220>
<221> PEPTIDE
<222> (157)..(192)
<223> rat cardiac troponin I

<400> 41
```
Ala Leu Leu Gly Thr Arg Ala Lys Glu Ser Leu Asp Leu Arg Ala His
  1               5                  10                  15

Leu Lys Gln Val Lys Lys Glu Asp Ile Glu Lys Glu Asn Arg Glu Val
             20                  25                  30

Gly Asp Trp Arg
```

35

<210> 42
<211> 65
<212> PRT
<213> Unknown

<220>
<221> PEPTIDE
<222> (1)..(65)
<223> rat cardiac troponin I

<400> 42
Ala Asp Glu Ser Ser Asp Ala Ala Gly Glu Pro Gln Pro Ala Pro Ala
1 5 10 15

Pro Val Arg Arg Arg Ser Ser Ala Asn Tyr Arg Ala Tyr Ala Thr Glu
20 25 30

Pro His Ala Lys Lys Lys Ser Lys Ile Ser Ala Ser Arg Lys Leu Gln
35 40 45

Leu Lys Thr Leu Met Leu Gln Ile Ala Lys Gln Glu Met Glu Arg Glu
50 55 60

Ala
65

<210> 43
<211> 11
<212> PRT
<213> Unknown

<220>
<221> PEPTIDE
<222> (189)..(199)
<223> rat cardiac troponin I

<400> 43
Gly Asp Trp Arg Lys Asn Ile Asp Ala Leu Ser
1 5 10

<210> 44
<211> 12
<212> PRT
<213> Unknown

<220>
<221> PEPTIDE
<222> (137)..(148)
<223> rat cardiac troponin I

<400> 44
Gly Lys Phe Lys Arg Pro Thr Leu Arg Arg Val Arg
1 5 10

<210> 45
<211> 47
<212> PRT

<213> Unknown

<220>
<221> PEPTIDE
<222> (96)..(142)
<223> Synthetic skeletal troponin I

<400> 45
Thr Gln Lys Ile Tyr Asp Leu Arg Gly Lys Phe Lys Arg Pro Thr Leu
1 5 10 15

Arg Arg Val Arg Ile Ser Ala Asp Ala Met Met Gln Ala Leu Leu Gly
20 25 30

Thr Arg Ala Lys Glu Ser Leu Asp Leu Arg Ala His Leu Lys Gln
35 40 45

<210> 46
<211> 27
<212> PRT
<213> Unknown

<220>
<221> PEPTIDE
<222> (28)..(54)
<223> Rat cardiac troponin I

<400> 46
Ala Tyr Ala Thr Glu Pro His Ala Lys Lys Lys Ser Lys Ile Ser Ala
1 5 10 15

Ser Arg Lys Leu Gln Leu Lys Thr Leu Met Leu
20 25

<210> 47
<211> 12
<212> PRT
<213> Unknown

<220>
<221> PEPTIDE
<222> (137)..(148)
<223> human cardiac troponin I

<400> 47
Lys Phe Lys Arg Pro Thr Leu Arg Arg Val Arg Ile
1 5 10

<210> 48
<211> 161
<212> PRT
<213> Unknown

<220>
<221> PEPTIDE
<222> (1)..(161)
<223> human cardiac/slow skeletal troponin C

<400> 48

```
Met Asp Asp Ile Tyr Lys Ala Ala Val Glu Gln Leu Thr Glu Glu Gln
  1               5                  10                  15

Lys Asn Glu Phe Lys Ala Ala Phe Asp Ile Phe Val Leu Gly Ala Glu
             20                  25                  30

Asp Gly Cys Ile Ser Thr Lys Glu Lys Gly Lys Val Met Arg Met Lys
         35                  40                  45

Gly Gln Asn Pro Thr Pro Glu Glu Lys Gln Glu Met Ile Asp Glu Val
     50                  55                  60

Asp Glu Asp Gly Ser Gly Thr Val Asp Phe Asp Glu Phe Leu Val Met
 65                  70                  75                  80

Met Val Arg Cys Met Lys Asp Asp Ser Lys Gly Lys Ser Glu Glu Glu
                 85                  90                  95

Leu Ser Asp Leu Phe Arg Met Phe Asp Lys Asn Ala Asp Gly Tyr Ile
            100                 105                 110

Asp Leu Glu Glu Leu Lys Ile Met Leu Gln Ala Thr Gly Glu Thr Ile
        115                 120                 125

Thr Glu Asp Asp Ile Glu Glu Leu Met Lys Asp Gly Asp Lys Arg Arg
    130                 135                 140

Asp Gly Arg Ile Asp Tyr Asp Glu Phe Leu Glu Phe Met Lys Gly Val
145                 150                 155                 160

Glu
```

<210> 49
<211> 94
<212> PRT
<213> Unknown

<220>
<221> PEPTIDE
<222> (1)..(94)
<223> human cardiac/slow skeletal troponin C

<400> 49

```
Met Asp Asp Ile Tyr Lys Ala Ala Val Glu Gln Leu Thr Glu Glu Gln
  1               5                  10                  15

Lys Asn Glu Phe Lys Ala Ala Phe Asp Ile Phe Val Leu Gly Ala Glu
             20                  25                  30

Asp Gly Cys Ile Ser Thr Lys Glu Lys Gly Lys Val Met Arg Met Lys
         35                  40                  45

Gly Gln Asn Pro Thr Pro Glu Glu Lys Gln Glu Met Ile Asp Glu Val
     50                  55                  60

Asp Glu Asp Gly Ser Gly Thr Val Asp Phe Asp Glu Phe Leu Val Met
 65                  70                  75                  80

Met Val Arg Cys Met Lys Asp Asp Ser Lys Gly Lys Ser Glu
                 85                  90
```

<210> 50
<211> 194
<212> PRT
<213> Unknown

<220>
<221> PEPTIDE
<222> (1)..(194)
<223> human cardiac myosin light chain 1

<400> 50

```
Ala Pro Lys Lys Pro Glu Pro Lys Lys Asp Asp Ala Lys Ala Ala Pro
  1               5                  10                  15

Lys Ala Ala Pro Ala Pro Ala Pro Pro Pro Glu Pro Glu Arg Pro Lys
             20                  25                  30

Glu Val Glu Phe Asp Ala Ser Lys Ile Lys Ile Glu Phe Thr Pro Glu
         35                  40                  45

Gln Ile GLu Glu Phe Lys Glu Ala Phe Met Leu Phe Asp Arg Thr Pro
     50                  55                  60

Lys Cys Glu Met Lys Ile Thr Tyr Gly Gln Cys Gly Asp Val Leu Arg
 65                  70                  75                  80

Ala Leu Gly Gln Asn Pro Thr Gln Ala Glu Val Leu Arg Val Leu Gly
                 85                  90                  95

Lys Pro Arg Gln Glu Glu Leu Asn Thr Lys Met Met Asp Phe Glu Thr
            100                 105                 110

Phe Leu Pro Met Leu Gln His Ile Ser Lys Asn Lys Asp Thr Glu Tyr
        115                 120                 125

Tyr Glu Asp Phe Val Glu Gly Leu Arg Val Phe Asp Lys Glu Gly Asn
    130                 135                 140

Gly Thr Val Met Gly Ala Glu Leu Arg His Val Leu Ala Thr Leu Gly
145                 150                 155                 160

Glu Arg Leu Thr Glu Asp Glu Val Glu Lys Leu Met Ala Gly Gln Glu
                165                 170                 175

Asp Ser Asn Gly Cys Ile Asn Tyr Glu Ala Phe Val Lys His Ile Met
            180                 185                 190
Ser Ser
```